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Experiment: 25. Recognize watch from the given image by general Object recognition using Open CV.

Code:

```
import cv2

i = cv2.imread("watch.jpg")

g = cv2.cvtColor(i, cv2.COLOR_BGR2GRAY)

b = cv2.GaussianBlur(g, (5, 5), 0)

e = cv2.Canny(b, 50, 150)

c, _ = cv2.findContours(e, cv2.RETR_EXTERNAL, cv2.CHAIN_APPROX_SIMPLE)

for x in c:

    a = cv2.contourArea(x)

    if a > 1000: # Ignore small objects

        p = cv2.arcLength(x, True)

        ap = cv2.approxPolyDP(x, 0.02 * p, True)

        x1, y1, w, h = cv2.boundingRect(ap)

        cv2.rectangle(i, (x1, y1), (x1+w, y1+h), (0, 255, 0), 2)

        cv2.putText(i, "Watch Detected", (x1, y1-10),

                    cv2.FONT_HERSHEY_SIMPLEX, 0.8, (0, 255, 0), 2)

cv2.imshow("Watch Recognition Output", i)

cv2.waitKey(0)

cv2.destroyAllWindows()
```

Input and Output:

